Non-Structural Stud (S)

MATERIAL	
Web (in)	3⅝
Flange (in)	1¼
Lip (in)	0.188
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0312
Minimum Thickness (mil)	30
Gauge	20D
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.66
Cross Sectional Area: A (in^2)	0.194
Moment of Inertia: Ix (in^4)	0.381
Section Modulus: Sx (in^3)	0.210
Radius of Gyration: Rx (in)	1.402
Moment of Inertia: Iy (in^4)	0.0313
Radius of Gyration: Ry (in)	0.415

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.328
Section Modulus: Sxe (in^3)	0.162
Local Buckling Allowable Moment:Mal (in-k)	3.21
Distortional Buckling Allowable Moment: Mad (in-k)	2.83
Allowable strong axis shear away from punch: Vag (lb)	793
Allowable strong axis shear at punch: Vanet (lb)	449

(check web crippling)

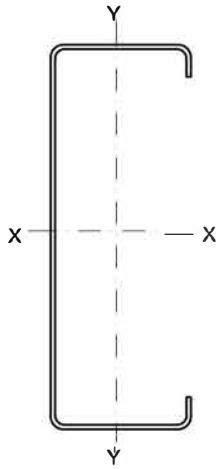
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.063
Torsional Warping Constant: Cw (in^6)	0.086
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.773
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.654

PRODUCT ID

362S 125-30 (3⅝x1¼x20Dga)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S 100-16



See Hermes/Hephaistos Technical Manual for complete design data

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